

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR 03/02572

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F02N11/04 H02J7/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F02N H02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 14, 5 March 2001 (2001-03-05) -& JP 2000 316299 A (MITSUBA CORP), 14 November 2000 (2000-11-14) abstract; figures 1,2,4	1,2,5, 10,20
A	US 6 420 793 B1 (GALE ET AL.) 16 July 2002 (2002-07-16) abstract column 2, line 60 - column 4, line 11 column 5, lines 3-49; figures 1-3	1,3,10, 14,15,20
A	EP 1 138 539 A (KABUSHIKI KAISHA TOSHIBA) 4 October 2001 (2001-10-04) abstract column 3, line 41 - column 7, line 56; figures 1,2	1,3,10, 14,15,20
-/-		



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

7 September 2004

Date of mailing of the international search report

16/09/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 406 182 A (INDUSTRIE MAGNETI MARELLI) 2 January 1991 (1991-01-02) abstract column 3, line 11 - column 5, line 27; figure 1	1,3,10, 14,15,20

## INTERNATIONAL SEARCH REPORT

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PCT/FR 03/02572

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2000316299	A	14-11-2000	NONE		
US 6420793	B1	16-07-2002	DE	10148248 A1	06-06-2002
			GB	2371156 A	17-07-2002
EP 1138539	A	04-10-2001	JP	2001271729 A	05-10-2001
			EP	1138539 A2	04-10-2001
			US	2001026141 A1	04-10-2001
EP 0406182	A	02-01-1991	IT	1232538 B	19-02-1992
			DE	69000330 D1	29-10-1992
			DE	69000330 T4	18-11-1993
			EP	0406182 A1	02-01-1991
			ES	2034849 T3	01-04-1993